

Monitoring, Reporting and Public Notification

Rule R309-104 Summary

Summary

All public water systems must periodically monitor their water. The contaminants to be monitored and the frequency of monitoring vary depending on: a) the nature of the customer base, b) the population served, c) the period of operation of the water system and each of its sources, d) the results of previous analysis, e) the type of treatment provided, f) the date the contaminants were last sampled, g) the type of distribution piping, h) the nature of the geologic formation the source is developed in, I) the nature and extent of man's activities around the sources, j) the status of the source protection plan, k) whether surface sources or groundwater sources under the direct influence of surface water are used, and l) the integrity of source development works. Because of these variables a single monitoring schedule cannot be

presented. Consequently, owners and operators of public water systems should *call: (801) 536-4200 and request a copy of the monitoring schedule* for the system of concern.

Approved Laboratories

Only laboratories certified by the State Health Laboratory can be used to obtain analysis for compliance purposes.

Reporting Test Results

Analysis results must be reported to: The Division of Drinking Water, P O Box 144830, Salt Lake City Utah 84114-4830. Phone: (801) 536-4200; Fax: (801) 536-4211.

Public Notification.

All public water systems must notify the customers within the time frames specified and using the notice language specified by the Division for the following events: a) an MCL exceedance, b) a monitoring violation, c) treatment technique violation, d) waterborne disease outbreak and e) variance and exemption schedule violations.

Record Maintenance

All public water systems shall retain on their premises or at convenient location near their premises the following records:

1. Records of bacteriologic analyses for at least five years.
2. Records of chemical analyses for at least ten years.
3. Records of all Lead/Copper sampling data and analyses, reports, surveys, letters, evaluations, schedules, State determinations, and any other information required in connection with Lead/Copper sampling for at least twelve years.
4. Records of action taken by the system to correct violations for at least three years.
5. Copies of any written reports, summaries or communications relating to sanitary surveys of the system for at least ten years.
6. Records concerning variance and/or exemption granted to the system for at least five

years following the expiration of such variance or exemption.

7. Records concerning the location and test results of backflow prevention assemblies for at least five years from the date of the test.

Parameter Groups

Required monitoring is divided into parameter groups. The following is a listing of the parameter group names along with the contaminants in each group:

Bacteriologic

Total coliforms
Fecal coliforms
Escherichia coliform (E. coli)

Nitrate/Nitrite

Nitrate
Nitrite
Total Nitrate and Nitrite

Asbestos

Asbestos

Inorganic & Metals

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cyanide (as free Cyanide)
Fluoride
Mercury
Nickel
Selenium
Sodium
Sulfate
Thallium
Total Dissolved Solids

Lead & Copper

Lead
Copper

VOC's

Vinyl chloride
Benzene

VOC's (cont.)

Carbon tetrachloride
1,2-Dichloroethane
Trichloroethylene
para-Dichlorobenzene
1,1-Dichloroethylene
1,1,1-Trichloroethane
cis-1,2-Dichloroethylene
1,2-Dichloropropane
Ethylbenzene
Monochlorobenzene
o-Dichlorobenzene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
Xylenes (total)
Dichloromethane
1,2,4-Trichlorobenzene
1,1,2-Trichloroethane

Pesticides

Alachlor
Aldicarb
Aldicarb sulfoxide
Aldicarb sulfone
Atrazine
Carbofuran
Chlordane
Dibromochloropropane
2,4-D
Ethylene dibromide
Heptachlor
Heptachlor epoxide
Lindane
Methoxychlor
Polychlorinated biphenyls

Pesticides (cont.)

Pentachlorophenol
Toxaphene
2,4,5-TP
Benzo(a)pyrene
Dalapon
Di(2-ethylhexyl)adipate
Di(2-ethylhexyl)phthalate
Dinoseb
Diquat
Endothall
Endrin
Glyphosate
Hexachlorobenzene
Hexachlorocyclopentadiene
Oxamyl (Vydate)
Picloram
Simazine
2,3,7,8-TCDD (Dioxin)

Radionclides

Gross alpha
Radium-226
Radium-228
Gross beta

Total Trihalomethanes

Total Trihalomethanes

Turbidity

Turbidity

Unregulated Organic

Chloroform
Bromodichloromethane
Chlorodibromomethane
Bromoform
Chlorobenzene
m-Dichlorobenzene
1,1-Dichloropropene
1,1-Dichloroethane
1,1,2,2-Tetrachloroethane
1,3-Dichloropropene
Chloromethane
Bromomethane

Unregulated Organic (cont.)

1,2,3-Trichloropropane
1,1,1,2-Tetrachloroethane
Chloroethane
2,2-Dichloropropane
o-Chlorotoluene
p-Chlorotoluene
Bromobenzene
1,3-Dichloropropene
Aldrin
Butachlor
Carbaryl
Dicamba
Dieldrin
3-Hydroxycarbofuran
Methomyl
Metolachlor
Metribuzin
Propachlor

New Source Chemistry

Aluminum
Ammonia as N
Antimony
Arsenic
Barium
Beryllium
Bicarbonate
Boron
Cadmium
Calcium
Carbon Dioxide
Carbonate Solids
Chemical Balance
Chromium
Copper
Corrosivity
Cyanide
Fluoride
Hydroxide
Iron
Lead
Magnesium
Manganese
Mercury

New Source Chemistry (cont.)

Nickel

Nitrate

Nitrite

Odor

pH

Potassium

Selenium

Silica, dissolved as SiO

Silver

Sodium

Specific Conductance

Sulfate

Surfactant as MBAS

Thallium

Total Alkalinity

Total Dissolved Solids

Total Hardness

Total Phosphate

Total Suspended Solids

Turbidity

Zinc